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13. (Once amended) The method of claim 10, further comprising correlating the microsatellite instability results with the presence of cancerous tumors of the gastro-intestinal system and of the endometrium.

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Please add the following new claims.

48. (New claim) The method of claim 4, wherein the mononucleotide repeat locus is MONO-15.

49. (New claim) The method of claim 4, wherein the mononucleotide repeat locus is MONO-11

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50. (New claim) A method of analyzing micro-satellite loci, comprising:

- a) providing primers for co-amplifying a set of at least three microsatellite loci of human genomic DNA, comprising at least one mono-nucleotide repeat locus selected from the group consisting of BAT-25, BAT-26, MONO-11, and MONO-15 and at least two tetra-nucleotide repeat loci selected from the group consisting of FGA, D1S518, D1S547, D1S1677, D2S1790, D3S2432, D5S818, D5S2849, D6S1053, D7S3046, D7S1808, D7S3070, D8S1179, D9S2169, D10S1426, D10S2470, D12S391, D17S1294, D17S1299, and D18S51;
- b) co-amplifying the set of at least three microsatellite loci from at least one sample of genomic DNA in a multiplex amplification reaction, using the primers, thereby producing amplified DNA fragments; and
- c) determining the size of the amplified DNA fragments.

51. (New claim) The method of claim 50, wherein the mononucleotide repeat locus is MONO-15.

52. (New claim) The method of claim 50, wherein the mononucleotide repeat locus is MONO-11.

53. (New claim) A method of analyzing micro-satellite loci, comprising:

- a) providing primers for co-amplifying a set of at least three microsatellite loci of human genomic DNA, comprising at least one mono-nucleotide repeat locus

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- selected from the group consisting of BAT-25, BAT-26, MONO-11, and MONO-15 and at least two tetra-nucleotide repeat loci;
  - b) co-amplifying the set of at least three microsatellite loci from at least one sample of genomic DNA in a multiplex amplification reaction, using the primers, thereby producing amplified DNA fragments; and
  - c) determining the size of the amplified DNA fragments.

54. (New claim) The method of claim 53, wherein the mononucleotide repeat locus is MONO-15.
55. (New claim) The method of claim 53, wherein the mononucleotide repeat locus is MONO-11.
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